

# Synthesis of three stereoisomers of p-ter-butylthiacalix[4]arene substituted with (ethoxycarbonyl)methoxy and fluorescent 1-amidoanthraquinone fragments

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## Abstract

© ISUCT Publishing. New tetrasubstituted at the lower rim thiacalix[4]arenes containing both (ethoxycarbonyl)methoxy and 1-amidoanthraquinone fragments in three conformations: cone, partial cone and 1,3-alternate were synthesized. It was shown that depending on the alkali metal cation (sodium, potassium or cesium) in the alkylation of the diester based on p-ter-butylthiacalix[4]arene by 2-bromo-N-(9',10'-dioxo-9',10'-dihydroanthracene-1'-yl)acetamide template effect of metal cation was observed. The fluorescent properties of the obtained compounds were studied.

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## Keywords

Fluorescence spectroscopy, Synthesis, Template effect, Thiacalix[4]arene